

Application No. 10/071,933
Amendment "I" dated September 2, 2005
Reply to Office Action mailed May 4, 2005

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-20. (Canceled).

Claim 21. (Currently Amended) ~~A~~ [[The]] switching station ~~as claimed in claim 18,~~
~~further comprising;~~

means for receiving a location registration signal from a mobile station; and

means for deleting, when the location registration signal is received, one of pieces of subscriber service information presently registered in a first management unit provided for use with the switching station and managing subscriber information, and for registering subscriber service information of the mobile station that has transmitted the location registration signal in the first management unit provided for use with the switching station, in a case where no subscriber service information can be newly registered in the first management unit provided for use with the switching station.

wherein the switching station further comprises means for registering subscriber location information about a mobile station in a second management unit managing subscriber information, and

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wherein when the switching station deletes one of pieces of subscriber service information presently registered in the first management unit for use with the switching station, the switching station does not delete, from the first management unit for use with the switching station, subscriber location information about a mobile station corresponding to the subscriber service information to be deleted, and wherein when the switching station receives the location registration signal from the mobile station, the switching station registers in the second management unit the subscriber location information about the mobile station registered in the first management unit for use with the switching station.

Claim 22. (Original) The switching station as claimed in claim 21, wherein said second management unit is an HLR.

Claim 23. (Currently Amended) Δ ~~[[The]]~~ switching station as ~~claimed in claim 18,~~ further comprising:

means for receiving a location registration signal from a mobile station; and

means for deleting, when the location registration signal is received, one of pieces of subscriber service information presently registered in a first management unit provided for use with the switching station and managing subscriber information, and for registering subscriber service information of the mobile station that has transmitted the location registration signal in the first management unit provided for use with the switching station, in a case where no subscriber service information can be newly registered in the first management unit provided for use with the switching station.

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wherein the switching station further comprises means for receiving a call origination signal from a mobile station, and means for acquiring subscriber service information about a mobile station from a second management unit managing subscriber information, and

wherein when the switching station receives, after deleting one of pieces of subscriber service information presently registered in the first management unit for use with the switching station, a call origination signal from a mobile station corresponding to the deleted subscriber service information, the switching station acquires the subscriber service information about the mobile station from the second management unit, and, if the acquired subscriber service information cannot be newly registered in the first management unit for use with the switching station, the switching station deletes one of pieces of subscriber service information presently registered in the first management unit, and registers the acquired subscriber service information in the first management unit for use with the switching station.

Claim 24. (Original) The switching station as claimed in claim 23, wherein said second management unit is an HLR.

Claim 25. (Currently Amended) A ~~[[The]]~~ switching station ~~as claimed in claim 18,~~ further comprising:

means for receiving a location registration signal from a mobile station; and

means for deleting, when the location registration signal is received, one of pieces of subscriber service information presently registered in a first management unit provided for use with the switching station and managing subscriber information, and for registering subscriber service information of the mobile station that has transmitted the location registration signal in

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the first management unit provided for use with the switching station, in a case where no subscriber service information can be newly registered in the first management unit provided for use with the switching station,

wherein the switching station further comprises means for receiving a call termination signal to a mobile station, and means for acquiring subscriber service information about a mobile station from a second management unit managing subscriber information, and

wherein when the switching station receives, after deleting one of pieces of subscriber service information presently registered in the first management unit for use with the switching station, a call termination signal to a mobile station corresponding to the deleted subscriber service information, the switching station acquires the subscriber service information about the mobile station from the second management unit, and, if the acquired subscriber service information cannot be newly registered in the first management unit for use with the switching station, the switching station deletes one of pieces of subscriber service information presently registered in the first management unit, and registers the acquired subscriber service information in the first management unit for use with the switching station.

Claim 26. (Original) The switching station as claimed in claim 25, wherein said second management unit is an HLR.

Claims 27-28. (Canceled).

Claim 29. (Currently Amended) ~~A~~ [[The]] switching station ~~as claimed in claim 28,~~
~~further comprising:~~

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means for receiving a location registration signal from a mobile station; and
means for deleting, when the location registration signal is received, one of pieces of
subscriber service information presently registered in a first management unit provided for use
with the switching station and managing subscriber information, and for registering subscriber
service information of the mobile station that has transmitted the location registration signal in
the first management unit provided for use with the switching station, in a case where no
subscriber service information can be newly registered in the first management unit provided for
use with the switching station.

wherein said switching station selects, as the mobile station whose subscriber service information is to be deleted, a mobile station which has made neither call origination nor call termination during the longest time period till the present time.

Claim 30. (Currently Amended) Δ ~~[[The]]~~ switching station ~~as claimed in claim 28;~~
further comprising:

means for receiving a location registration signal from a mobile station; and
means for deleting, when the location registration signal is received, one of pieces of
subscriber service information presently registered in a first management unit provided for use
with the switching station and managing subscriber information, and for registering subscriber
service information of the mobile station that has transmitted the location registration signal in
the first management unit provided for use with the switching station, in a case where no
subscriber service information can be newly registered in the first management unit provided for
use with the switching station.

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wherein said switching station selects, as the mobile station whose subscriber service information is to be deleted, a mobile station which has made neither call origination, call termination nor location registration for predetermined period of time, or a mobile station whose power state is off.

Claims 31-40. (Canceled).

Claim 41. (New) A subscriber service information registration method comprising the steps of:

receiving, at a switching station, a location registration signal from a mobile station; and

deleting, at the switching station, when the location registration signal is received, one of pieces of subscriber service information presently registered in a first management unit provided for use with the switching station and managing subscriber information, and registering, at the switching station, subscriber service information of the mobile station that has transmitted the location registration signal in the first management unit provided for use with the switching station, in a case where no subscriber service information can be newly registered in the first management unit provided for use with the switching station,

wherein the method further comprises a step of registering, at the switching station, subscriber location information about a mobile station in a second management unit managing subscriber information, and

wherein when the method deletes one of pieces of subscriber service information presently registered in the first management unit for use with the switching station, the method does not delete, from the first management unit for use with the switching station, subscriber

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location information about a mobile station corresponding to the subscriber service information to be deleted, and wherein when the method receives the location registration signal from the mobile station, the method registers in the second management unit the subscriber location information about the mobile station registered in the first management unit for use with the switching station.

Claim 42. (New) The method as claimed in claim 41, wherein said second management unit is an HLR.

Claim 43. (New) A subscriber service information registration method comprising the steps of:

receiving, at a switching station, a location registration signal from a mobile station; and
deleting, at the switching station, when the location registration signal is received, one of pieces of subscriber service information presently registered in a first management unit provided for use with the switching station and managing subscriber information, and registering, at the switching station, subscriber service information of the mobile station that has transmitted the location registration signal in the first management unit provided for use with the switching station, in a case where no subscriber service information can be newly registered in the first management unit provided for use with the switching station,

wherein the method further comprises a step of receiving, at the switching station, a call origination signal from a mobile station, and a step of acquiring, at the switching station, subscriber service information about a mobile station from a second management unit managing subscriber information, and

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wherein when the method receives, after deleting one of pieces of subscriber service information presently registered in the first management unit for use with the switching station, a call origination signal from a mobile station corresponding to the deleted subscriber service information, the method acquires the subscriber service information about the mobile station from the second management unit, and, if the acquired subscriber service information cannot be newly registered in the first management unit for use with the switching station, the method deletes one of pieces of subscriber service information presently registered in the first management unit, and registers the acquired subscriber service information in the first management unit for use with the switching station.

Claim 44. (New) The method as claimed in claim 43, wherein said second management unit is an HLR.

Claim 45. (New) A subscriber service information registration method comprising the steps of:

receiving, at a switching station, a location registration signal from a mobile station; and
deleting, at the switching station, when the location registration signal is received, one of pieces of subscriber service information presently registered in a first management unit provided for use with the switching station and managing subscriber information, and registering, at the switching station, subscriber service information of the mobile station that has transmitted the location registration signal in the first management unit provided for use with the switching station, in a case where no subscriber service information can be newly registered in the first management unit provided for use with the switching station,

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wherein the method further comprises a step of receiving, at the switching station, a call termination signal to a mobile station, and a step of acquiring, at the switching station, subscriber service information about a mobile station from a second management unit managing subscriber information, and

wherein when the method receives, after deleting one of pieces of subscriber service information presently registered in the first management unit for use with the switching station, a call termination signal to a mobile station corresponding to the deleted subscriber service information, the method acquires the subscriber service information about the mobile station from the second management unit, and, if the acquired subscriber service information cannot be newly registered in the first management unit for use with the switching station, the method deletes one of pieces of subscriber service information presently registered in the first management unit, and registers the acquired subscriber service information in the first management unit for use with the switching station.

Claim 46. (New) The method as claimed in claim 45, wherein said second management unit is an HLR.

Claim 47. (New) A subscriber service information registration method comprising the steps of:

receiving, at a switching station, a location registration signal from a mobile station; and
deleting, at the switching station, when the location registration signal is received, one of pieces of subscriber service information presently registered in a first management unit provided for use with the switching station and managing subscriber information, and registering, at the

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switching station, subscriber service information of the mobile station that has transmitted the location registration signal in the first management unit provided for use with the switching station, in a case where no subscriber service information can be newly registered in the first management unit provided for use with the switching station,

wherein said method selects, as the mobile station whose subscriber service information is to be deleted, a mobile station which has made neither call origination nor call termination during the longest time period till the present time.

Claim 48. (New) A subscriber service information registration method comprising the steps of:

receiving, at a switching station, a location registration signal from a mobile station; and

deleting, at the switching station, when the location registration signal is received, one of pieces of subscriber service information presently registered in a first management unit provided for use with the switching station and managing subscriber information, and registering, at the switching station, subscriber service information of the mobile station that has transmitted the location registration signal in the first management unit provided for use with the switching station, in a case where no subscriber service information can be newly registered in the first management unit provided for use with the switching station,

wherein said method selects, as the mobile station whose subscriber service information is to be deleted, a mobile station which has made neither call origination, call termination nor location registration for predetermined period of time, or a mobile station whose power state is off.